

UNITED STATES PATENT AND TRADEMARK OFFICE

SW

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO	<u>: </u>	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/010,794		11/13/2001	Stanley Stewart Collins	43992/241147	5851
826	7590	11/19/2003	EXAMINER		
ALSTON		O LLP CA PLAZA	TORRES, ALICIA M		
		ON STREET, SUITE 400	00	ART UNIT	PAPER NUMBER
CHARLO	ΓΤΕ, NC	28280-4000	3671		
				DATE MAILED: 11/19/200	3

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/010,794	COLLINS ET AL.	
Office Action Summary	Examiner	Art Unit	_
·	Alicia M Torres	3671	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatio - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status	ON. FR 1.136(a). In no event, however, may a on. , a reply within the statutory minimum of the period will apply and will expire SIX (6) MC statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on			
	This action is non-final.		
Since this application is in condition for all closed in accordance with the practice un	lowance except for formal ma		
Disposition of Claims			
4) ☐ Claim(s) is/are pending in the applied 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) 8,9,11-13 and 18-20 is/are allow 6) ☐ Claim(s) 1,2,4,5 and 21 is/are rejected. 7) ☐ Claim(s) 6 is/are objected to. 8) ☐ Claim(s) are subject to restriction as	hdrawn from consideration. red.		
Application Papers	·		
9) The specification is objected to by the Exa 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the contact of the specific state of th	accepted or b) objected to othe drawing(s) be held in abeya orrection is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. §§ 119 and 120		·	
12) ☐ Acknowledgment is made of a claim for for a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docure. 2. ☐ Certified copies of the priority docure. 3. ☐ Copies of the certified copies of the application from the International B. * See the attached detailed Office action for a since a specific reference was included in the 37 CFR 1.78. a) ☐ The translation of the foreign language. 14) ☐ Acknowledgment is made of a claim for dor reference was included in the first sentence.	ments have been received. ments have been received in e priority documents have bee ureau (PCT Rule 17.2(a)). a list of the certified copies no mestic priority under 35 U.S.C he first sentence of the specifi ge provisional application has mestic priority under 35 U.S.C	Application No In received in this National Stage t received. In the stage of the sta	
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94-3) Information Disclosure Statement(s) (PTO-1449) Paper N 	(8) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	

Art Unit: 3671

Response to Arguments

1. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 21 is rejected under 35 U.S.C. 102(b) as being anticipated by Armstrong et al., hereafter Armstrong.

Steinbock discloses a trench-digging machine for digging a trench under a structure comprising:

A frame (1-4) for operable connection to a transport machine (not shown), wherein the frame (1-4) comprises a pair of widthwise extending rails (3, 3') and at least one strut (1) extending between the pair of rails (3, 3') and the transport machine defines a lengthwise extending axis and extends widthwise between a pair of lateral bounding planes; and

A digging implement (unnumbered) connected to the frame (1-4) for digging the trench,

Wherein the frame (1-4) is connected to the transport machine such that a center-line of the digging implement is capable of being laterally offset from the lengthwise extending axis to a

position beyond the respective lateral bounding planes, thereby permitting the digging implement to be placed under the structure.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaczmarski et al., hereafter Kaczmarski, in view of Armstrong et al., hereafter Armstrong.

Kaczmarski discloses a trench-digging machine for digging a trench under a structure comprising:

A frame (12) for operable connection to a transport machine (14), wherein the transport machine (14) defines a lengthwise extending axis and extends widthwise between a pair of lateral bounding planes (defined by the sides of transport machine 14);

A digging implement (10) connected to the frame (12) for digging the trench, wherein the frame (12) is connected to the transport machine (14) such that a center-line of the digging implement (10) is capable of being laterally offset from the lengthwise extending axis to a position beyond the respective lateral bounding planes (see figure 5), thereby permitting the digging implement (10) to be placed under the structure, as per claim 1; and

Wherein the attachment plate (52) is capable of connecting the frame (12) to the transport machine (14) at a plurality of predetermined positions such that the center-line of the digging

implement (10) carried by the frame (12) is adjustable with respect to the lengthwise extending axis of the transport machine (14) by connecting the frame (12) to the transport machine (14) at different predetermined positions, as per claim 2.

However, Kaczmarski fails to disclose an attachment plate carried by the transport machine and capable of connecting the frame to the transport machine wherein the attachment plate is oriented at a permanently fixed angle offset from vertical such that the attachment plate faces downwardly at a fixed position.

Armstrong discloses an attachment plate (118) carried by the transport machine (10) and capable of connecting the frame (100) to the transport machine (10) wherein the attachment plate (118) is oriented at a permanently fixed angle offset from vertical such that the attachment plate (118) faces downwardly at a fixed position.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the downwardly facing plate of Armstrong on the trench-digging machine of Kaczmarski in order to allow for movement of the trencher between a plurality of positions.

6. Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Steinbock in view of Armstrong.

In regards to claims 4 and 5, Steinbock discloses a trench-digging machine for digging a trench under a structure comprising:

A frame (1-4) for operable connection to a transport machine (not shown), wherein the transport machine defines a lengthwise extending axis and extends widthwise between a pair of lateral bounding planes;

A digging implement (unnumbered) connected to the frame (1-4) for digging the trench, wherein the frame (1-4) is connected to the transport machine such that a center-line of the digging implement is capable of being laterally offset from the lengthwise extending axis to a position beyond the respective lateral bounding planes, thereby permitting the digging implement to be placed under the structure; and

wherein the frame (1-4) comprises a pair of widthwise extending rails (3, 3') and at least one strut (1) extending between the pair of rails (3, 3'), as per claim 4.

However, Steinbock fails to disclose an attachment plate carried by the transport machine and capable of connecting the frame to the transport machine at a plurality of predetermined positions such that the center-line of the digging implement carried by the frame is adjustable with respect to the lengthwise extending axis of the transport machine by connecting the frame to the transport machine at different predetermined positions, wherein the attachment plate is oriented at an angle offset from vertical such that the attachment plate faces downwardly and wherein the attachment plate is connected to the at least one strut of the frame, as per claim 4; and

Wherein the at least one strut of the frame also extends at substantially th same angle offset from vertical as the attachment plate, as per claim 5.

Armstrong discloses an attachment plate (118) carried by the transport machine (10) and capable of connecting the frame of Steinbock to the transport machine (10) at a plurality of

Art Unit: 3671

predetermined positions such that the center-line of the digging implement carried by the frame is adjustable with respect to the lengthwise extending axis of the transport machine (10) by connecting the frame to the transport machine (10) at different predetermined positions, wherein the attachment plate (118) is oriented at an angle offset from vertical such that the attachment plate faces downwardly and wherein the attachment plate is connected to the at least one strut of the frame, as per claim 4; and

Wherein the at least one strut of the frame will extend at substantially the same angle offset from vertical as the attachment plate when mounted, as per claim 5.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the attachment plate of Armstrong on the implement of Steinbock in order to provide a one of a plurality of connecting means.

Allowable Subject Matter

- 7. Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. Claims 8, 9, 11-13, and 18-20 are allowed.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number: 10/010,794

Art Unit: 3671

A shortened statutory period for reply to this final action is set to expire THREE

Page 7

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Alicia M. Torres whose telephone number is 703-305-6953. The

examiner can normally be reached Monday through Thursday from 7:00 a.m. - 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thomas B. Will, can be reached at 703-308-3870.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the group receptionist whose telephone number is 703-305-1113. The fax

number for this Group is 703-872-9306.

Thomas **B**. Will

Supervisory Patent Examiner

Group Art Unit 3671

AMT

November 14, 2003